

92470

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BERCH Examiner #: 5918 Date: 4/28/03
 Art Unit: 1624 Phone Number 30 84218 Serial Number: 09/03 5149
 Mail Box and Bldg/Room Location: 4D15 Results-Format Preferred (circle): PAPER DISK E-MAIL
4E12

If more than one search is submitted, please prioritize searches in order of need.

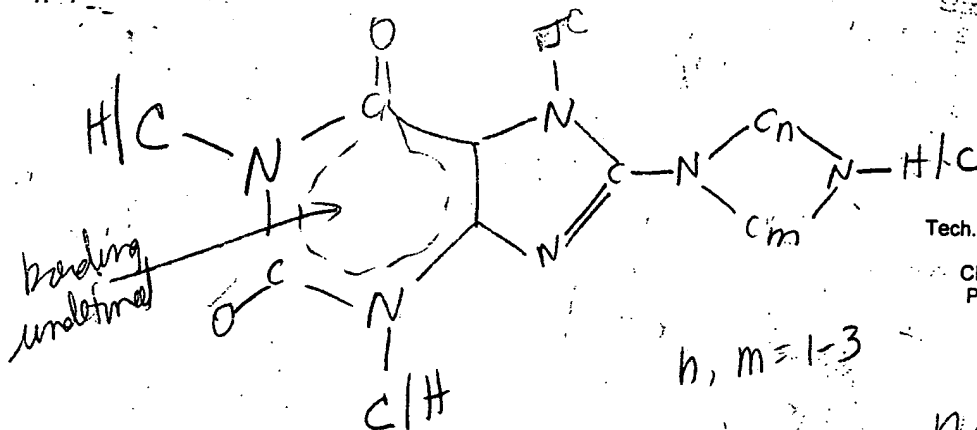
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued parent numbers) along with the appropriate serial number.



Mary Jane Ruhl
 Tech. Info. Specialist, STIC
 TC-1600
 CM-1, Room 6A-06
 Phone: 605-1155

J = C, but not C₁-C₅ alkyl

no
 py 2002
 or py 2003

(Note - 1-H/C is in case ~~parent~~ D6/H is altered)

STAFF USE ONLY

Searcher: _____

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 4/28/03

Date Completed: 5/1/03

Searcher Prep & Review Time: 2

Clerical Prep Time: _____

Online Time: _____

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

=> d his

(FILE 'HOME' ENTERED AT 10:50:24 ON 01 MAY 2003)

FILE 'REGISTRY' ENTERED AT 10:50:33 ON 01 MAY 2003

L1 STR L***

L2 17 S L1

L3 STR L1

L4 STR L***

L5 1 S L3 NOT L4

L6 10 S L3 NOT L4 FULL

** 10 compds, only 2 appear in lit.
- see d me stat for structure*

FILE 'HCAPLUS' ENTERED AT 12:43:33 ON 01 MAY 2003

L7 2 S L6 *2 cit from CA Plus*

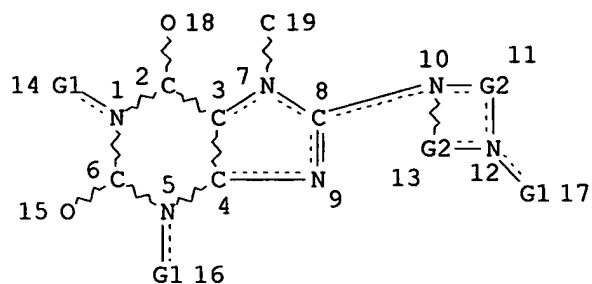
FILE 'CAOLD' ENTERED AT 12:46:33 ON 01 MAY 2003

L8 0 S L7 *0 cite from CA Old*

** List of 10 compds attached*

=> d que stat 17

L3 STR



VAR G1=C/H

REP G2=(1-3) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

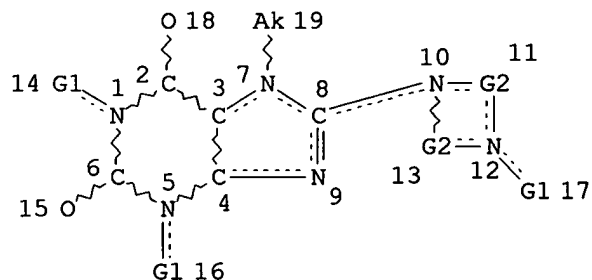
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L4 STR



VAR G1=C/H

REP G2=(1-3) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X5 C AT 19

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L6 10 SEA FILE=REGISTRY SSS FUL L3 NOT L4

L7 2 SEA FILE=HCAPLUS ABB=ON L6

=> d ibib abs hitstr 17 1-2

L7 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:676018 HCAPLUS

DOCUMENT NUMBER: 137:216824

TITLE: Preparation of xanthine derivatives as dipeptidylpeptidase-IV inhibitors

INVENTOR(S): Himmelsbach, Frank; Mark, Michael; Eckhardt, Matthias; Langkopf, Elke; Maier, Roland; Lotz, Ralf

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: PCT Int. Appl., 373 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

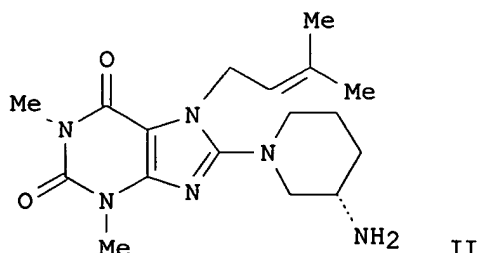
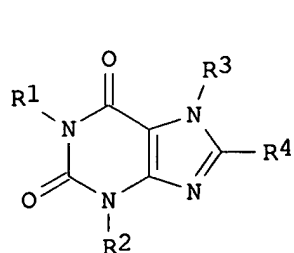
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002068420	A1	20020906	WO 2002-EP1820	20020221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10109021	A1	20020905	DE 2001-10109021	20010224
DE 10117803	A1	20021024	DE 2001-10117803	20010410
DE 10140345	A1	20030227	DE 2001-10140345	20010817
PRIORITY APPLN. INFO.:			DE 2001-10109021 A	20010224
			DE 2001-10117803 A	20010410
			DE 2001-10140345 A	20010817
			DE 2002-10203486 A	20020130

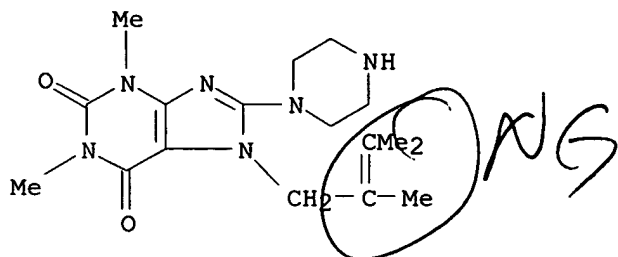
OTHER SOURCE(S): MARPAT 137:216824

GI



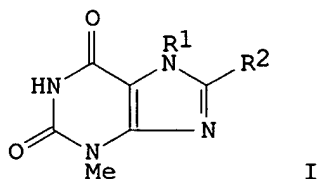
AB Xanthine derivs. of formula I [R1, R2 = H, alkyl, alkenyl, etc.; R3 = alkyl, arylalkyl, etc.; R4 = heterocyclyl, cycloalkyl, aminoalkyl, etc.] are prepd. which exhibit an inhibitory effect on the activity of the dipeptidylpeptidase-IV enzyme. Pharmaceutical compns. contg. I are described. Thus, II was prepd. and had an IC50 of 22 nM against dipeptidylpeptidase-IV.

IT **454706-71-9P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of xanthine derivs. as dipeptidylpeptidase-IV inhibitors)
 RN 454706-71-9 HCAPLUS
 CN 1H-Purine-2,6-dione, 7-(2,3-dimethyl-2-butenyl)-3,7-dihydro-1,3-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1987:95577 HCAPLUS
 DOCUMENT NUMBER: 106:95577
 TITLE: Synthesis and biological activity of 3-methyl, 7- or 8-alkyl-, 7,8-dialkyl, heterocyclic, and cyclohexylaminoxanthines
 AUTHOR(S): Romanenko, N. I.; Fedulova, I. V.; Primenko, B. O.; Orestenko, L. P.
 CORPORATE SOURCE: Zaporozh. Med. Inst., Zaporozhe, USSR
 SOURCE: Farmatsevtichnii Zhurnal (Kiev) (1986), (5), 41-4
 CODEN: FRZKAP; ISSN: 0367-3057
 DOCUMENT TYPE: Journal
 LANGUAGE: Ukrainian
 OTHER SOURCE(S): CASREACT 106:95577
 GI



AB Seventeen title compds. (I; R1 = heptyl, nonyl, or CH₂CH:C(Cl)Me; R2 = NMe₂, NEt₂, piperidino, cyclohexylamino, NHCH₂Ph, piperazino, morpholino, NHNH₂, N(CH₂CH₂OH)₂, etc.) were prepd. by reacting the K salt of 8-bromo-3-methylxanthine with appropriate alkyl halides followed by condensation with appropriate primary or secondary amines. Toxicity studies in mice showed I to be less toxic than aminazine. Most I exhibited diuretic activity in rats, and some exhibited analeptic activity as well. Many I exhibited antimicrobial activity in vitro against both bacteria and fungi. The most active diuretics contained morpholino,

piperidino, or N-benzyl groups at the 8-position.

IT 106939-21-3P

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(prepn. and pharmacol. of, structure in relation to)

RN 106939-21-3 HCAPLUS

CN 1H-Purine-2,6-dione, 7-heptyl-3,7-dihydro-3-methyl-8-(1-piperazinyl)-
(9CI) (CA INDEX NAME)

